

What is claimed is:

1. A method for the treatment, prevention, or inhibition of a CNS disorder, pain and inflammation, or an inflammation-associated disorder in a subject in need of such treatment, prevention, or inhibition, comprising administering a cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine to the subject.

2. The method according to claim 1, wherein the administration of the cyclooxygenase-2 selective inhibitor or prodrug thereof and the reboxetine together comprises an effective method for the treatment, prevention, or inhibition of a CNS disorder, pain and inflammation, or an inflammation-associated disorder.

3. The method according to claim 1, wherein the reboxetine is provided as a racemic mixture thereof.

4. The method according to claim 1, wherein the reboxetine is an R isomer thereof.

5. The method according to claim 1, wherein the reboxetine is an S isomer thereof.

6. The method according to claim 1, wherein the cyclooxygenase-2 selective inhibitor or prodrug thereof has a cyclooxygenase-2 IC_{50} of less than about 0.2 $\mu\text{mol/L}$.

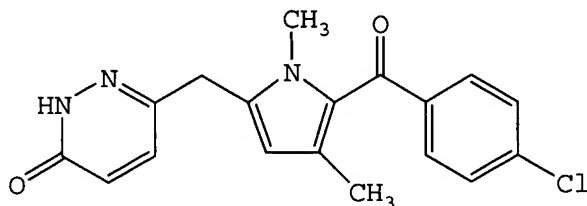
7. The method according to claim 6, wherein the cyclooxygenase-2 selective inhibitor or a pharmaceutically acceptable salt or prodrug thereof has a selectivity ratio of cyclooxygenase-2 inhibition over cyclooxygenase-1 inhibition of at least about 2.

8. The method according to claim 7, wherein the cyclooxygenase-2 selective inhibitor or prodrug thereof has a cyclooxygenase-2 IC_{50} of less than about 0.2 $\mu\text{mol/L}$ and also has a selectivity ratio of cyclooxygenase-2 inhibition over cyclooxygenase-1 inhibition of at least about 100.

9. The method according to claim 6, wherein the cyclooxygenase-2 selective inhibitor or prodrug thereof has a cyclooxygenase-1 IC₅₀ of at least about 1 μmol/L.

5 10. The method according to claim 9, wherein the cyclooxygenase-2 selective inhibitor or a pharmaceutically acceptable salt or prodrug thereof has a cyclooxygenase-1 IC₅₀ of at least about 10 μmol/L.

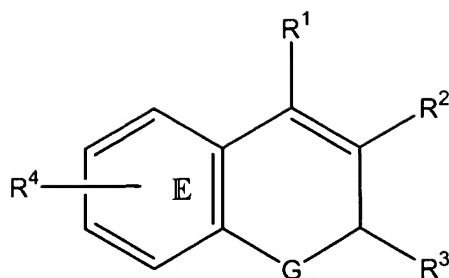
10 11. The method according to claim 6, wherein the cyclooxygenase-2 selective inhibitor comprises 6-[[5-(4-chlorobenzoyl)-1,4-dimethyl-1H-pyrrol-2-yl]methyl]-3(2H)-pyridazinone, having the formula:



or a prodrug thereof.

15 12. The method according to claim 1, wherein the cyclooxygenase-2 selective inhibitor comprises a chromene.

13. The method according to claim 12, wherein the cyclooxygenase-2 selective inhibitor is selected from the group consisting of substituted benzothiopyrans, dihydroquinolines, and dihydronaphthalenes
20 having the general formula:



wherein G is selected from the group consisting of O, S and NR^a;

wherein R^a is alkyl;

5 wherein R¹ is selected from the group consisting of H and aryl;

wherein R² is selected from the group consisting of carboxyl, aminocarbonyl, alkylsulfonylaminocarbonyl and alkoxycarbonyl;

wherein R³ is selected from the group consisting of haloalkyl, alkyl, aralkyl, cycloalkyl and aryl optionally substituted with one or more radicals
10 selected from alkylthio, nitro and alkylsulfonyl; and

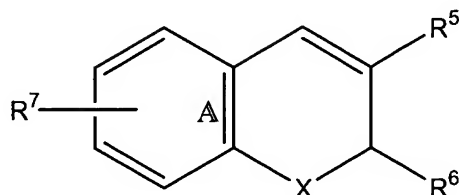
wherein R⁴ is selected from the group consisting of one or more radicals selected from H, halo, alkyl, aralkyl, alkoxy, aryloxy, heteroaryloxy, aralkyloxy, heteroaralkyloxy, haloalkyl, haloalkoxy, alkylamino, arylamino, aralkylamino, heteroarylamino,
15 heteroarylalkylamino, nitro, amino, aminosulfonyl, alkylaminosulfonyl, arylaminosulfonyl, heteroarylaminosulfonyl, aralkylaminosulfonyl, heteroaralkylaminosulfonyl, heterocyclosulfonyl, alkylsulfonyl, hydroxyarylcarbonyl, nitroaryl, optionally substituted aryl, optionally substituted heteroaryl, aralkylcarbonyl, heteroarylcarbonyl, arylcarbonyl, aminocarbonyl, and alkylcarbonyl;

or wherein R⁴ together with ring E forms a naphthyl radical;

or an isomer thereof; and

including the diastereomers, enantiomers, racemates, tautomers, salts, esters, amides and prodrugs thereof.

14. The method according to claim 1, wherein the cyclooxygenase-2 selective inhibitor comprises a compound having the formula:



wherein:

X is selected from the group consisting of O, S and NR^b;

R^b is alkyl;

R⁵ is selected from the group consisting of carboxyl, aminocarbonyl, alkylsulfonylaminocarbonyl and alkoxycarbonyl;

R⁶ is selected from the group consisting of haloalkyl, alkyl, aralkyl, cycloalkyl and aryl, wherein haloalkyl, alkyl, aralkyl, cycloalkyl, and aryl and each is independently optionally substituted with one or more radicals selected from the group consisting of alkylthio, nitro and alkylsulfonyl; and

R⁷ is one or more radicals selected from the group consisting of hydrido, halo, alkyl, aralkyl, alkoxy, aryloxy, heteroaryloxy, aralkyloxy, heteroaralkyloxy, haloalkyl, haloalkoxy, alkylamino, arylamino, aralkylamino, heteroarylamino, heteroarylalkylamino, nitro, amino, aminosulfonyl, alkylaminosulfonyl, arylaminosulfonyl, heteroarylaminosulfonyl, aralkylaminosulfonyl, heteroaralkylaminosulfonyl, heterocyclosulfonyl, alkylsulfonyl, optionally substituted aryl, optionally substituted heteroaryl, aralkylcarbonyl, heteroarylcarbonyl, arylcarbonyl, aminocarbonyl, and alkylcarbonyl; or wherein R⁷ together with ring A forms a naphthyl radical;

or an isomer or prodrug thereof.

15. The method according to claim 14, wherein:

X is selected from the group consisting of oxygen and sulfur;

R⁵ is selected from the group consisting of carboxyl, lower alkyl, lower aralkyl and lower alkoxy carbonyl;

R⁶ is selected from the group consisting of lower haloalkyl, lower cycloalkyl and phenyl; and

5 R⁷ is one or more radicals selected from the group of consisting of hydrido, halo, lower alkyl, lower alkoxy, lower haloalkyl, lower haloalkoxy, lower alkylamino, nitro, amino, aminosulfonyl, lower alkylaminosulfonyl, 5-membered heteroarylalkylaminosulfonyl, 6-membered heteroarylalkylaminosulfonyl, lower aralkylaminosulfonyl, 5-membered
10 nitrogen-containing heterocyclosulfonyl, 6-membered-nitrogen containing heterocyclosulfonyl, lower alkylsulfonyl, optionally substituted phenyl, lower aralkylcarbonyl, and lower alkylcarbonyl;

or wherein R⁷ together with ring A forms a naphthyl radical;

or an isomer or prodrug thereof.

15 16. The method according to claim 14, wherein:

R⁵ is carboxyl;

R⁶ is lower haloalkyl; and

R⁷ is one or more radicals selected from the group consisting of hydrido, halo, lower alkyl, lower haloalkyl, lower haloalkoxy, lower
20 alkylamino, amino, aminosulfonyl, lower alkylaminosulfonyl, 5-membered heteroarylalkylaminosulfonyl, 6-membered heteroarylalkylaminosulfonyl, lower aralkylaminosulfonyl, lower alkylsulfonyl, 6-membered nitrogen-containing heterocyclosulfonyl, optionally substituted phenyl, lower aralkylcarbonyl, and lower alkylcarbonyl; or wherein R⁷ together with ring
25 A forms a naphthyl radical;

or an isomer or prodrug thereof.

17. The method according to claim 14, wherein:

R⁶ is selected from the group consisting of fluoromethyl, chloromethyl, dichloromethyl, trichloromethyl, pentafluoroethyl,
30 heptafluoropropyl, difluoroethyl, difluoropropyl, dichloroethyl, dichloropropyl, difluoromethyl, and trifluoromethyl; and

5 R^7 is one or more radicals selected from the group consisting of
hydrido, chloro, fluoro, bromo, iodo, methyl, ethyl, isopropyl, *tert*-butyl,
butyl, isobutyl, pentyl, hexyl, methoxy, ethoxy, isopropoxy, *tert*butyloxy,
trifluoromethyl, difluoromethyl, trifluoromethoxy, amino, N,N-
10 dimethylamino, N,N-diethylamino, N-phenylmethylaminosulfonyl, N-
phenylethylaminosulfonyl, N-(2-furylmethyl)aminosulfonyl, nitro, N,N-
dimethylaminosulfonyl, aminosulfonyl, N-methylaminosulfonyl, N-
ethylsulfonyl, 2,2-dimethylethylaminosulfonyl, N,N-dimethylaminosulfonyl,
N-(2-methylpropyl)aminosulfonyl, N-morpholinosulfonyl, methylsulfonyl,
15 benzylcarbonyl, 2,2-dimethylpropylcarbonyl, phenylacetyl and phenyl; or
wherein R^2 together with ring A forms a naphthyl radical;
or an isomer or prodrug thereof.

18. The method according to claim 14, wherein:

15 R^6 is selected from the group consisting trifluoromethyl and
pentafluoroethyl; and

20 R^7 is one or more radicals selected from the group consisting of
hydrido, chloro, fluoro, bromo, iodo, methyl, ethyl, isopropyl, *tert*-butyl,
methoxy, trifluoromethyl, trifluoromethoxy, N-phenylmethylaminosulfonyl,
N-phenylethylaminosulfonyl, N-(2-furylmethyl)aminosulfonyl, N,N-
dimethylaminosulfonyl, N-methylaminosulfonyl, N-(2,2-
25 dimethylethyl)aminosulfonyl, dimethylaminosulfonyl, 2-
methylpropylaminosulfonyl, N-morpholinosulfonyl, methylsulfonyl,
benzylcarbonyl, and phenyl; or wherein R^7 together with ring A forms a
naphthyl radical;

25 or an isomer or prodrug thereof.

19. The method according to claim 14, wherein the
cyclooxygenase-2 selective inhibitor comprises:

- 30 a) 6-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
b) 6-chloro-7-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic
acid;

- c) 8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- d) 6-chloro-7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 e) 6-chloro-8-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- f) 2-trifluoromethyl-3H-naphthopyran-3-carboxylic acid ;
7-(1,1-dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- g) 6-bromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 10 h) 8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- i) 6-trifluoromethoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- j) 5,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- k) 8-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 15 l) 7,8-dimethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- m) 6,8-bis(dimethylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- n) 7-(1-methylethyl)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 20 o) 7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- p) 6-chloro-7-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- q) 6-chloro-8-ethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 r) 6-chloro-7-phenyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- s) 6,7-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- t) 6,8-dichloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- u) 2-trifluoromethyl-3H-naphtho[2,1-b]pyran-3-carboxylic acid;
- 30 v) 6-chloro-8-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

- w) 8-chloro-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- x) 8-chloro-6-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 5 y) 6-bromo-8-chloro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- z) 8-bromo-6-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- aa) 8-bromo-6-methyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 10 bb) 8-bromo-5-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- cc) 6-chloro-8-fluoro-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 15 dd) 6-bromo-8-methoxy-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- ee) 6-[[[(phenylmethyl)amino]sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- ff) 6-[(dimethylamino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 20 gg) 6-[(methylamino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- hh) 6-[(4-morpholino)sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 25 ii) 6-[(1,1-dimethylethyl)aminosulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- jj) 6-[(2-methylpropyl)aminosulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- kk) 6-methylsulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
- 30

ll) 8-chloro-6-[[[(phenylmethyl)amino]sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

mm) 6-phenylacetyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

5 nn) 6,8-dibromo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

oo) 8-chloro-5,6-dimethyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

pp) 6,8-dichloro-(S)-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

10 qq) 6-benzylsulfonyl-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

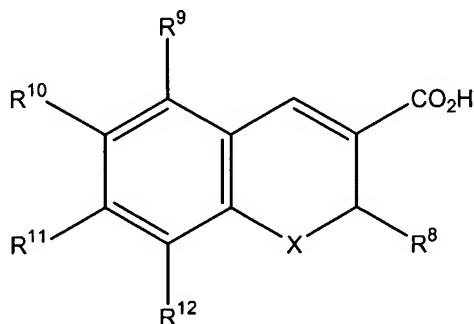
rr) 6-[[N-(2-furylmethyl)amino]sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

15 ss) 6-[[N-(2-phenylethyl)amino]sulfonyl]-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;

tt) 6-iodo-2-trifluoromethyl-2H-1-benzopyran-3-carboxylic acid;
7-(1,1-dimethylethyl)-2-pentafluoroethyl-2H-1-benzopyran-3-carboxylic acid; and

20 uu) 6-chloro-2-trifluoromethyl-2H-1-benzothiopyran-3-carboxylic acid;
or a prodrug of such compound.

20. The method according to claim 6, wherein the cyclooxygenase-2 specific inhibitor comprises a compound having the formula:



wherein:

X is selected from the group consisting of O and S;

R⁸ is lower haloalkyl;

R⁹ is selected from the group consisting of hydrido, and halo;

5 R¹⁰ is selected from the group consisting of hydrido, halo, lower alkyl, lower haloalkoxy, lower alkoxy, lower aralkylcarbonyl, lower dialkylaminosulfonyl, lower alkylaminosulfonyl, lower aralkylaminosulfonyl, lower heteroaralkylaminosulfonyl, 5-membered nitrogen-containing heterocyclosulfonyl, and 6-membered nitrogen-containing heterocyclosulfonyl;

10 R¹¹ is selected from the group consisting of hydrido, lower alkyl, halo, lower alkoxy, and aryl; and

R¹² is selected from the group consisting of the group consisting of hydrido, halo, lower alkyl, lower alkoxy, and aryl;

or an isomer or prodrug thereof.

15 21. The method according to claim 20, wherein:

R⁸ is selected from the group consisting of trifluoromethyl and pentafluoroethyl;

R⁹ is selected from the group consisting of hydrido, chloro, and fluoro;

20 R¹⁰ is selected from the group consisting of hydrido, chloro, bromo, fluoro, iodo, methyl, tert-butyl, trifluoromethoxy, methoxy, benzylcarbonyl, dimethylaminosulfonyl, isopropylaminosulfonyl, methylaminosulfonyl, benzylaminosulfonyl, phenylethylaminosulfonyl, methylpropylaminosulfonyl, methylsulfonyl, and morpholinosulfonyl;

25 R¹¹ is selected from the group consisting of hydrido, methyl, ethyl, isopropyl, tert-butyl, chloro, methoxy, diethylamino, and phenyl; and

R¹² is selected from the group consisting of hydrido, chloro, bromo, fluoro, methyl, ethyl, tert-butyl, methoxy, and phenyl;

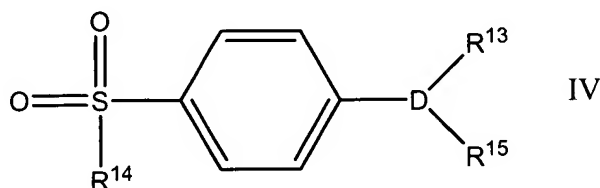
or an isomer or prodrug thereof.

30 22. A method of treating or preventing a cyclooxygenase-2 mediated disorder in a subject, said method comprising treating the

subject having or susceptible to said disorder with a therapeutically-effective amount of a combination of a compound or salt of any of the compounds described in any one of claims 6 – 21 and reboxetine.

23. The method according to claim 2, wherein the
5 cyclooxygenase-2 mediated disorder is selected from the group consisting of a CNS disorder, inflammation, arthritis, pain and fever.

24. The method according to claim 1, wherein the
cyclooxygenase-2 selective inhibitor comprises a material selected from
the class of tricyclic cyclooxygenase-2 selective inhibitors represented by
10 the general structure:



wherein:

15 D is selected from the group consisting of partially unsaturated or unsaturated heterocyclyl and partially unsaturated or unsaturated carbocyclic rings;

R¹³ is selected from the group consisting of heterocyclyl, cycloalkyl, cycloalkenyl and aryl, wherein R¹³ is optionally substituted at a
20 substitutable position with one or more radicals selected from alkyl, haloalkyl, cyano, carboxyl, alkoxy carbonyl, hydroxyl, hydroxyalkyl, haloalkoxy, amino, alkylamino, arylamino, nitro, alkoxyalkyl, alkylsulfinyl, halo, alkoxy and alkylthio;

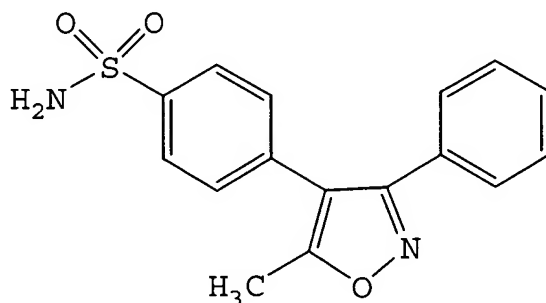
R¹⁴ is selected from the group consisting of methyl and amino;
25 and

R¹⁵ is selected from the group consisting of a radical selected from H, halo, alkyl, alkenyl, alkynyl, oxo, cyano, carboxyl, cyanoalkyl, heterocycloxy, alkyloxy, alkylthio, alkylcarbonyl, cycloalkyl, aryl,

haloalkyl, heterocyclyl, cycloalkenyl, aralkyl, heterocyclylalkyl, acyl, alkylthioalkyl, hydroxyalkyl, alkoxycarbonyl, arylcarbonyl, aralkylcarbonyl, aralkenyl, alkoxyalkyl, arylthioalkyl, aryloxyalkyl, aralkylthioalkyl, aralkoxyalkyl, alkoxyaralkoxyalkyl, alkoxycarbonylalkyl, aminocarbonyl, aminocarbonylalkyl, alkylaminocarbonyl, N- arylaminocarbonyl, N-alkyl-N- arylaminocarbonyl, alkylaminocarbonylalkyl, carboxyalkyl, alkylamino, N- arylamino, N-aralkylamino, N-alkyl-N-aralkylamino, N-alkyl-N-aryl amino, aminoalkyl, alkylaminoalkyl, N-arylaminoalkyl, N-aralkylaminoalkyl, N- alkyl-N-aralkylaminoalkyl, N-alkyl-N-arylaminoalkyl, aryloxy, aralkoxy, arylthio, aralkylthio, alkylsulfinyl, alkylsulfonyl, aminosulfonyl, alkylaminosulfonyl, N-arylaminosulfonyl, arylsulfonyl, and N-alkyl-N- arylaminosulfonyl;

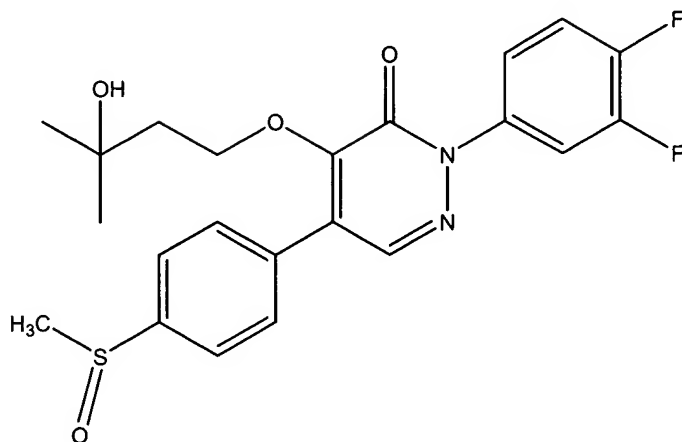
or a prodrug thereof.

25. The method according to claim 1, wherein the cyclooxygenase-2 selective inhibitor comprises valdecoxib, having the following structure:



or a prodrug thereof.

26. The method according to claim 1, wherein the cyclooxygenase-2 selective inhibitor comprises a compound having the structure:

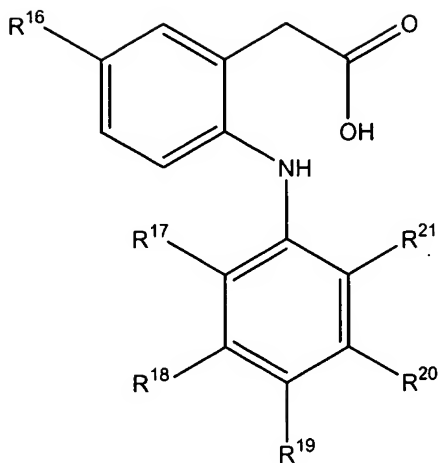


5 or a prodrug thereof.

27. The method according to claim 1, wherein the cyclooxygenase-2 selective inhibitor is selected from the group consisting of celecoxib, JTE-522, deracoxib, a chromene, a chroman, parecoxib, valdecoxib, etoricoxib, rofecoxib, N-(2-cyclohexyloxynitrophenyl)methane
10 sulfonamide, COX189, ABT963, meloxicam, BMS-347070, prodrugs of any of them, and mixtures thereof.

28. The method according to claim 27, wherein the cyclooxygenase-2 selective inhibitor comprises celecoxib or a prodrug thereof.

15 29. The method according to claim 1, wherein the cyclooxygenase-2 selective inhibitor comprises a phenylacetic acid derivative represented by the general structure:



wherein R^{16} is methyl or ethyl;

R^{17} is chloro or fluoro;

5 R^{18} is hydrogen or fluoro;

R^{19} is hydrogen, fluoro, chloro, methyl, ethyl, methoxy, ethoxy or hydroxy;

R^{20} is hydrogen or fluoro; and

R^{21} is chloro, fluoro, trifluoromethyl or methyl,

10 provided that R^{17} , R^{18} , R^{19} and R^{20} are not all fluoro when R^{16} is ethyl and R^{19} is H;

or a prodrug thereof.

30. The method according to claim 29, wherein:

R^{16} is ethyl;

15 R^{17} and R^{19} are chloro;

R^{18} and R^{20} are hydrogen, and

R^{21} is methyl;

or a prodrug thereof.

20 31. The method according to claim 1, wherein an amount of the cyclooxygenase-2 selective inhibitor or prodrug thereof together with an amount of reboxetine, constitute an amount effective for the treatment, prevention, or inhibition of the CNS disorder, pain and inflammation, or inflammation-associated disorder.

32. The method according to claim 1, wherein the amount of reboxetine is within a range of from about 1 mg/day to about 10 mg/day.

33. The method according to claim 32, wherein the amount of reboxetine is within a range of from about 2 mg/day to about 8 mg/day.

5 34. The method according to claim 33, wherein the amount of reboxetine is within a range of from about 3 mg/day to about 6 mg/day.

35. The method according to claim 32, wherein the amount of the cyclooxygenase-2 selective inhibitor or prodrug thereof is within a range of from about 0.01 to about 100 mg/day per kg of body weight of the
10 subject.

36. The method according to claim 35, wherein the amount of the cyclooxygenase-2 selective inhibitor or prodrug thereof is within a range of from about 1 to about 20 mg/day per kg of body weight of the subject.

15 37. The method according to claim 1, wherein the weight ratio of the amount of cyclooxygenase-2 selective inhibitor or prodrug thereof to the amount of reboxetine that is administered to the subject is within a range of from 1:1 to about 1000:1.

38. The method according to claim 37, wherein the weight ratio
20 of the amount of cyclooxygenase-2 selective inhibitor or prodrug thereof to the amount of reboxetine that is administered to the subject is within a range of from about 50:1 to about 100:1.

39. The method according to claim 1, wherein the pain and inflammation or inflammation-associated disorder is selected from the
25 group consisting of neuropathic pain, headache, fever, arthritis, rheumatoid arthritis, spondyloarthropathies, gouty arthritis, osteoarthritis, systemic lupus erythematosus, juvenile arthritis, asthma, bronchitis, menstrual cramps, tendinitis, bursitis, connective tissue injuries or disorders, skin related conditions, psoriasis, eczema, burns, dermatitis,
30 gastrointestinal conditions, inflammatory bowel disease, gastric ulcer, gastric varices, Crohn's disease, gastritis, irritable bowel syndrome,

ulcerative colitis, cancer, colorectal cancer, herpes infections, HIV, pulmonary edema, kidney stones, minor injuries, wound healing, vaginitis, candidiasis, lumbar spondylanhrosis, vascular diseases, migraine headaches, sinus headaches, tension headaches, dental pain, periarteritis nodosa, thyroiditis, aplastic anemia, Hodgkin's disease, sclerodoma, rheumatic fever, diabetes mellitus (type 1 and type 2), myasthenia gravis, multiple sclerosis, sarcoidosis, nephrotic syndrome, Behcet's syndrome, polymyositis, gingivitis, hypersensitivity, swelling occurring after injury, myocardial ischemia, ophthalmic diseases, retinitis, retinopathies, conjunctivitis, uveitis, ocular photophobia, acute injury to the eye tissue, pulmonary inflammation, nervous system disorders, cortical dementias, and Alzheimer's disease.

40. The method according to claim 1, wherein the pain and inflammation or inflammation-associated disorder is an ophthalmic disease or ophthalmic injury.

41. The method according to claim 40, wherein the ophthalmic disease or ophthalmic injury is selected from the group consisting of retinitis, retinopathies, conjunctivitis, uveitis, ocular photophobia, acute injury to the eye tissue.

42. The method according to claim 39, wherein the pain and inflammation or inflammation-associated disorder is arthritis.

43. The method according to claim 42, wherein the arthritis is osteoarthritis.

44. The method according to claim 42, wherein the arthritis is rheumatoid arthritis.

45. The method according to claim 1, wherein the subject is an animal.

46. The method according to claim 45, wherein the subject is a human.

47. The method according to claim 2, wherein the cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine are

administered to the subject enterally or parenterally in one or more dose(s) per day.

5 48. The method according to claim 47, wherein the cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine are administered to the subject substantially simultaneously:

49. The method according to claim 47, wherein the cyclooxygenase-2 selective inhibitor and reboxetine are administered sequentially.

10 50. The method according to claim 1, wherein the CNS disorder is selected from the group consisting of Alzheimer's disease (AD), amnesia, amyotrophic lateral sclerosis (ALS), anorexia nervosa, anxiety disorder, anxiety neurosis, ataxia, attention deficit hyperactivity disorder, autism, autonomic nervous system disease, behavior disorder, bipolar disorder, brain injury, bulimia, catatonia, central nervous system disease, chronic
15 psychiatric indications, chronic urological indications, incontinence, cognitive disorder, convulsion, cranial neuropathy, cyclothymia or cyclothymic personality, cystocele, delirium, delusional (paranoid) disorders, dementia, depression, diabetic neuropathy, diverticula, dystonia, dystonia, dysuria, eating disorder, encephalitis, epilepsy,
20 extrapyramidal syndrome, feeding disorder, hematuria, Huntington's disease (HD) or Huntington's choria, hydronephrosis, hydroureter, hypochondriacal neurosis, hypomanic personality, hypoxia, hysteria, hysterical neurosis, manic depression, meningitis, mental deficiency, mental disorder, motor neurone disease, movement disorder, muscular
25 spasm, multiple sclerosis, myalgia, name, narcissism, nervous system injury, neurodegenerative disease, neurological disease, neurological, mental and cognitive disorder, neuropathy, obsessive/compulsive disorder, obsessive-compulsive neurosis, opiate use disorder, paralysis, Parkinson's disease (PD), passive-aggressive disorder, personality
30 disorder, phobic neurosis, pneumaturia, posttraumatic stress disorder, psychopathy, psychosis, schizophrenia, seizure, senile dementia, sleep

disorder, sociopathy, somatization disorder, stupor, substance dependence, tardive dyskinesia, and tinnitus.

51. A method for the treatment, prevention, or inhibition of a disorder in a subject, comprising administering a cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine to the subject, wherein the disorder is selected from the group consisting of actinomycosis, acute appendicitis, acute cholecystitis, acute hemorrhagic encephalitis, acute hepatitis, acute injury to the eye tissue, acute myocardial infarction, acute pancreatitis, adenitis, amebiasis, amebic colitis, anal fissures, ankylosing spondylitis, aphthous stomatitis, aphthous ulcers, aplastic anemia, appendiceal abscess, arachnoiditis, arteritis, arthritis, asthma, atherosclerosis, atopic dermatitis, B virus myelitis, "backwash" ileitis of ulcerative colitis, bacterial endocarditis, Behcet's syndrome, berylliosis, blastomyces dermatitidis, blepharitis, brain abscess, bronchiectasis, bronchiolitis, brucellosis, bursitis, cancer and associated pain, candidiasis, carcinoma of the bile ducts, cat-scratch fever, cavernous sinus thrombosis, cecal diverticulitis, cellulitis, cerebral epidural abcess, cholelithiasis, chondritis, choreoretinitis, chronic active hepatitis, chronic urological indications, incontinence, coccidioides immitis, colorectal cancer, conjunctivitis, cortical dementias, cortical thrombophlebitis, Crohn's disease, cryptococcus neoformans, cystic fibrosis, dacryocystitis, dental pain, dermatomyositis, diabetes mellitus (type 1 and type 2), diabetic neuropathy, diverticula, dysuria, encephalitis, encephalomyelitis, endometritis, endophthalmitis, eosinophilic gastroenteritis, epicondylitis, epiglottitis, erythema multiforme, erythema nodosum, external ear inflammatory disease, fasciitis, fibromyalgia, fistulas, folliculitis, gastric ulcer, gastric varices, gastritis, gingivitis, gliosis, glomerulonephritis, gonococcal infection, gout, granulomatous colitis, hemorrhoids, hepatitis, hematuria, herpes, HIV1, Hodgkin's disease, hypersensitivity, ileal carcinoid, ileitis, ileocecal tuberculosis, ileocolitis, ileojejunitis, iliofemoral venous thrombosis, incarcerated hernia, infarction of the colon, inflammatory bowel disease,

interstitial keratitis, intestinal obstruction, iritis, irritable bowel syndrome, ischemia, ischemic colitis, kidney stones, labyrinthitis, lateral sinus thrombosis, leprosy, low back pain, lumbar spondylarthritis, lymphadenitis, lymphangitis, lymphogranuloma inguinale, lymphosarcoma, mastoiditis, mesenteric thrombosis, metastatic melanocarcinoma, migraine headache, minor injuries, multiple sclerosis, myasthenia gravis, myocardial ischemia, myositis, myringitis, nephritis, nephrotic syndrome, neuritis, neuronitis, neuropathic pain, neurosyphilis, nodular lymphoid hyperplasia, ocular photophobia, ocular photophobia, ophthalmic diseases, osteoarthritis, osteomyelitis, otitis, ovarian carcinoma, panencephalitis, papillitis, parenchymatous, pelvic inflammatory disease, perforated ulcer, perianal abscess, periarteritis nodosa, pericarditis, pericholangitis, periodontitis, peritonitis, pharyngitis, pleuritis, pneumaturia, pneumonia, pneumonitis, poliomyelitis, polymyositis, postherpetic neuralgia, prostatitis, pseudomembranous enterocolitis, pseudopolyps, psoriasis, pulmonary edema, pulmonary infarction, pulmonary inflammation, pulpitis, pyelonephritis, pyelephlebitis, pyoderma gangrenosum, rabies, radiation colitis, radiation enteritis, rectal prolapse, regional enteritis, renal amyloidosis, retinitis, retinopathies, rheumatic fever, rheumatoid arthritis, rhinitis, rickettsiae, sacroiliitis, salpingitis, sarcoidosis, scleritis, sclerodoma, sclerosing cholangitis, septic thrombophlebitis, shigellosis, shingles, sinus headaches, sinusitis, spinal epidural abscess, splenitis, subdural empyema, swelling occurring after injury, syphilitic meningovascular syphilis, tabes dorsalis, tendonitis, tenosynovitis, tension headaches, thyroiditis, tonsillitis, toxic megacolon, transverse myelitis, trigeminal neuralgia, tuberculosis enteritis, typhoid fever, ulcerative colitis, ulcerative proctitis, ureteritis, uveitis, vaginitis, vascular diseases, vascular necrosis, vasculitis, ventricular empyema, vestibulitis, viral infections, wound healing, and Zollinger-Ellison syndrome.

52. A method for the treatment or prevention of a disorder having an inflammatory component in a subject in need of said treatment

or prevention of disorders having an inflammatory component, the method comprising the step of administering to the subject a therapeutically effective dose of a cyclooxygenase-2 selective inhibitor or a pharmaceutically acceptable salt or prodrug thereof and reboxetine.

5 53. A composition for the treatment, prevention, or inhibition of a CNS disorder, pain and inflammation, or an inflammation-associated disorder comprising a cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine.

10 54. The composition according to claim 53, wherein the composition is useful for treating a subject in need of treatment, prevention, or inhibition of a CNS disorder, pain and inflammation, or an inflammation-associated disorder, and wherein a dose of the composition constitutes an amount of a cyclooxygenase-2 selective inhibitor or a pharmaceutically acceptable salt or prodrug thereof and an amount of
15 reboxetine that together constitute a CNS disorder, pain and inflammation, or inflammation-associated disorder suppressing treatment, prevention, or inhibition effective amount.

20 55. The composition according to claim 53, wherein the cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine are present in a combination of the cyclooxygenase-2 selective inhibitor and reboxetine as described in any one of claims 3 - 29 and 24 - 38.

 55. A pharmaceutical composition comprising a cyclooxygenase-2 specific inhibitor or prodrug thereof; reboxetine; and a pharmaceutically-acceptable excipient.

25 56. The pharmaceutical composition according to claim 55, wherein the cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine are present in a combination of the cyclooxygenase-2 selective inhibitor or prodrug thereof and reboxetine as described in any one of claims 3 - 29 and 24 - 38.

30 57. A kit that is suitable for use in the treatment, prevention or inhibition of a CNS disorder, pain and inflammation or inflammation-

- 5 associated disorder, the kit comprises a first dosage form comprising a cyclooxygenase-2 selective inhibitor or prodrug thereof and a second dosage form comprising reboxetine, in quantities which comprise a therapeutically effective amount of the compounds for the treatment, prevention, or inhibition of a CNS disorder, pain and inflammation, or an inflammation-associated disorder.